

SIX TISSUE ELEMENTS FROM A PathWorkTM BreastArray BR50 STAINED WITH CK7 SHOWING SELECTIVE STAINING (400X). TISSUE **ELEMENTS ARE 0.6mm DIAMETER AND SPACED** 0.3mm APART.

FIG. 2B

BR50

SAMPLE DATA SHEET INFORMATION (FOR ONE TISSUE ELEMENT. LOCATED AT A1) PROVIDED WITH EVERY PathWorks™ Tissue MicroArray

45

1 2 3 4 5 6 7 8

0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 00000000 A 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0

00000000 B 0000000 0000000

FIG. 2A

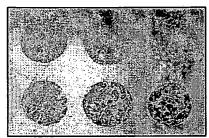
0 0 0 0 0 0 0 0 -45s

CAT.# 07 LOT# COORDINATES: A1a MITOSES: 1 **BREAST ORGAN:** PT: **CATEGORY:** BREAST CANCER, DUCTAL pN: 0 F SEX: 0 **LN POS** 67 AGE: 23 LN ALL G2 **BRE GRADE:** TUMOR DIA. 15

TUBULI: 3 SURGERY: **MASTECTOMY** POLYMORPHY: 3

FIG. 2C





TISSUE MicroArrays

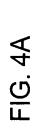
- DEVELOPMENT OF POPULATION DATABASES
- HIGH-THROUGHPUT IN SITU ANALYSIS OF DNA, RNA AND PROTEIN
- DISCOVERY OF DIAGNOSTIC AND PROGNOSTIC CORRELATIONS
- TARGET PRIORITIZATION

FIG. 3



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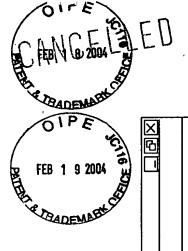
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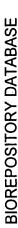


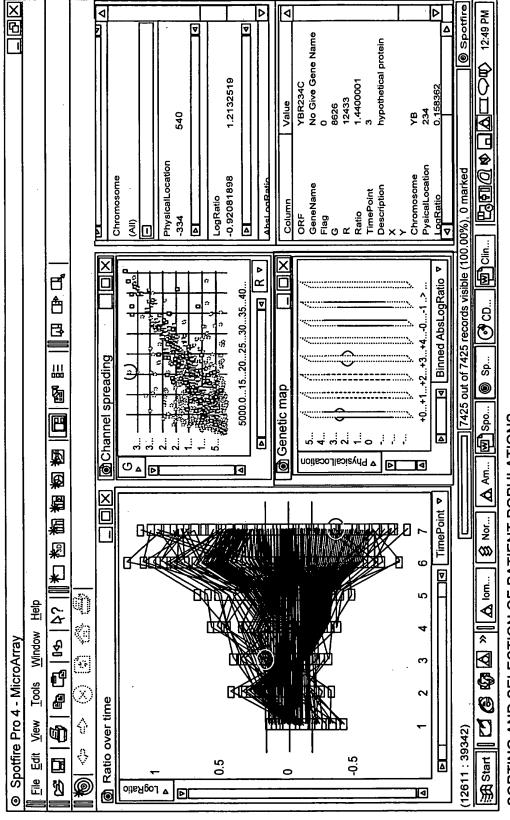
CLINOMICS BIOREPOSITORY SYSTEM

(Section Colinomics Biorepositry Application - [frmSpecimenEntry: From]	XBI
Format Records Tools Window Help	区图
Specimen Entry Form	
Pathology # Lookup Pathology # H-983-90]
Patient Data Diagnosis Histology Specimen Data	
Collection Date Age at Collection Received Date Received Tech Specimen Type Amount 6/19/1990 83 10/15/1999 CB tissue block Delete	
Medication Con Medication Metastasis Site Evidence Treatment TNMStaging Pathology CMF Taxol Lung Biopsy Chemotherate T1N0M0	
Date RadiationTherapy Radiation Date //120/1990	
PrimarySite TubeType SurgicalResection Breast (I) Conical Yes ▼	
Sample	
ClinomicsID Description Location Sample Type Amount Quote#	
000007489 Breast cancer TPA, A, tubes 💌 S 💌 100 mg/l 0	
TPA, B, bags	
Breast cancer TPA, B, bags	
3 Breast cancer TPA, A, tubes ♥ FFPE ♥	
d	
Record: 14 4 1 b b1 b* of 4771	
Form View	
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DATA ENTRY







SORTING AND SELECTION OF PATIENT POPULATIONS CLUSTER ANALYSIS

FIG. 4B

DEVELOPMENT OF EXPRESSION PROFILES VS MEDICAL DATA

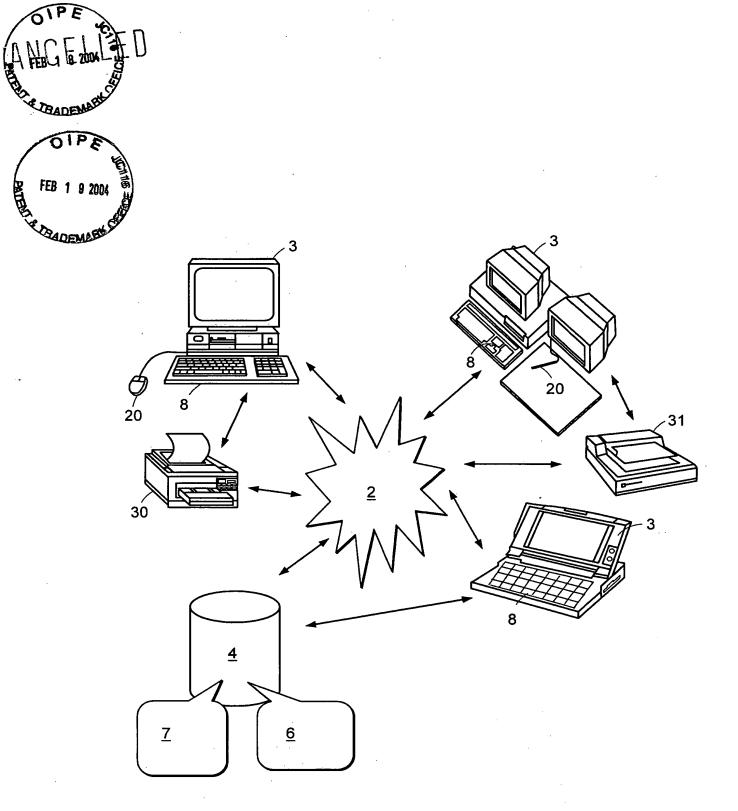
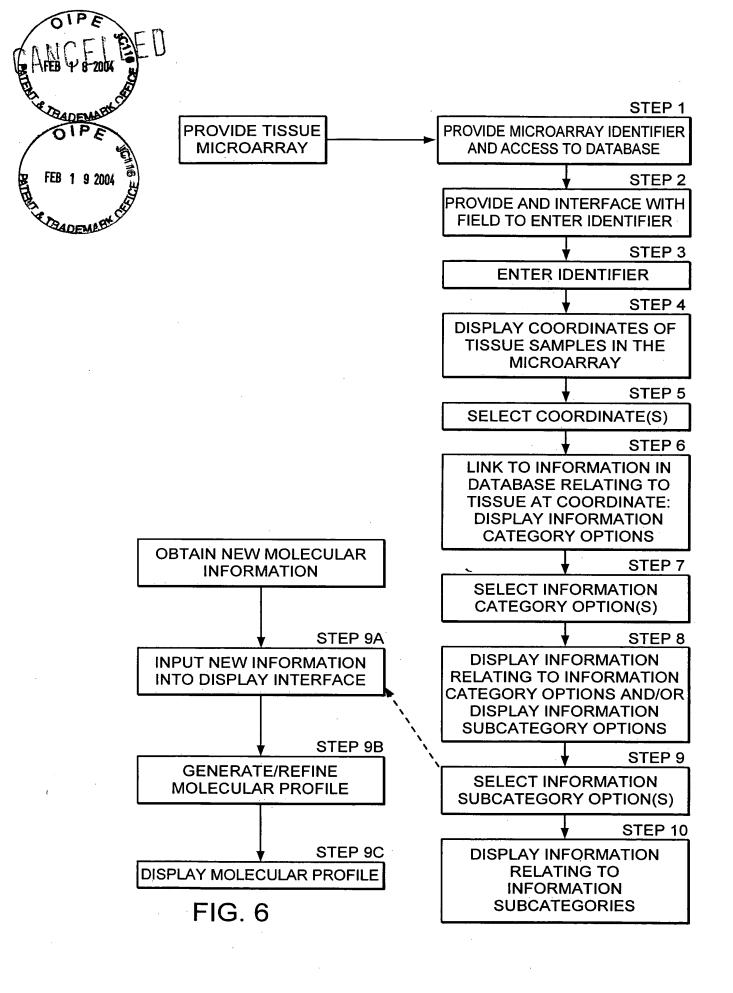
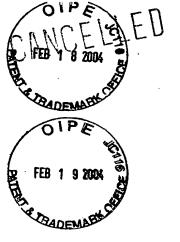


FIG. 5





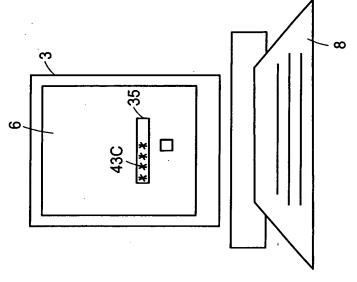


FIG. 7B







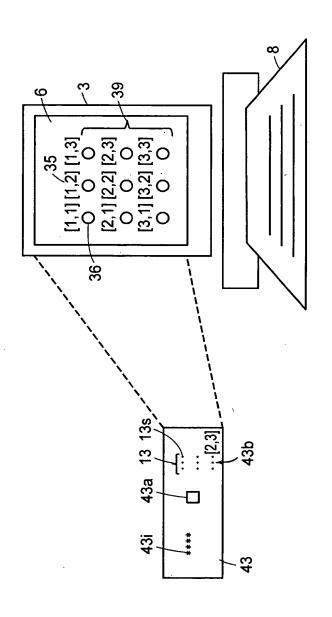
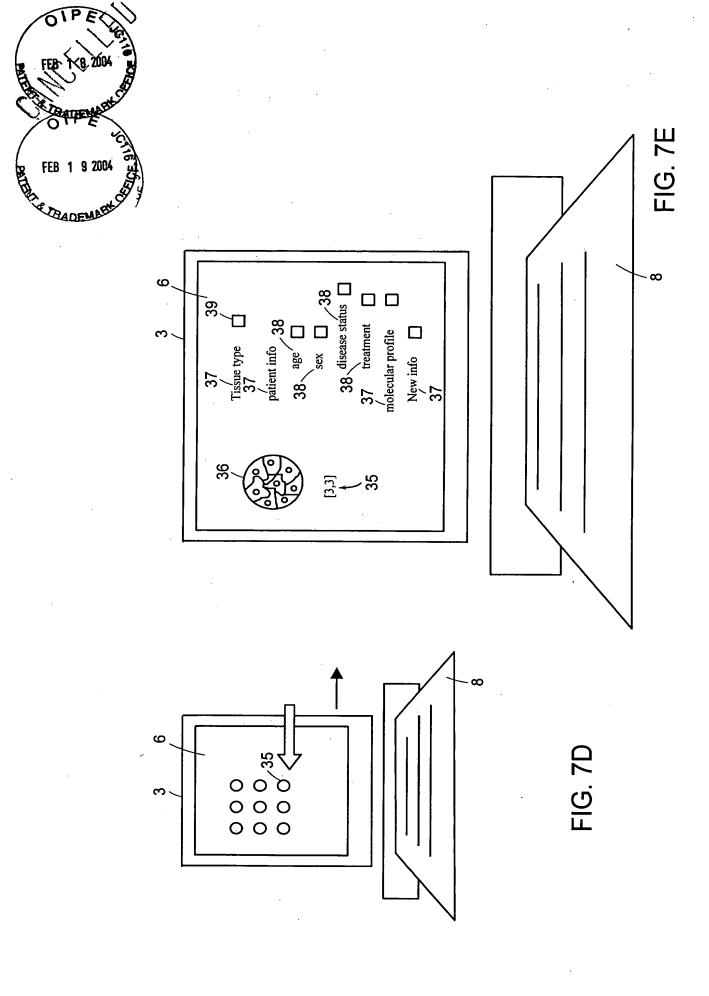
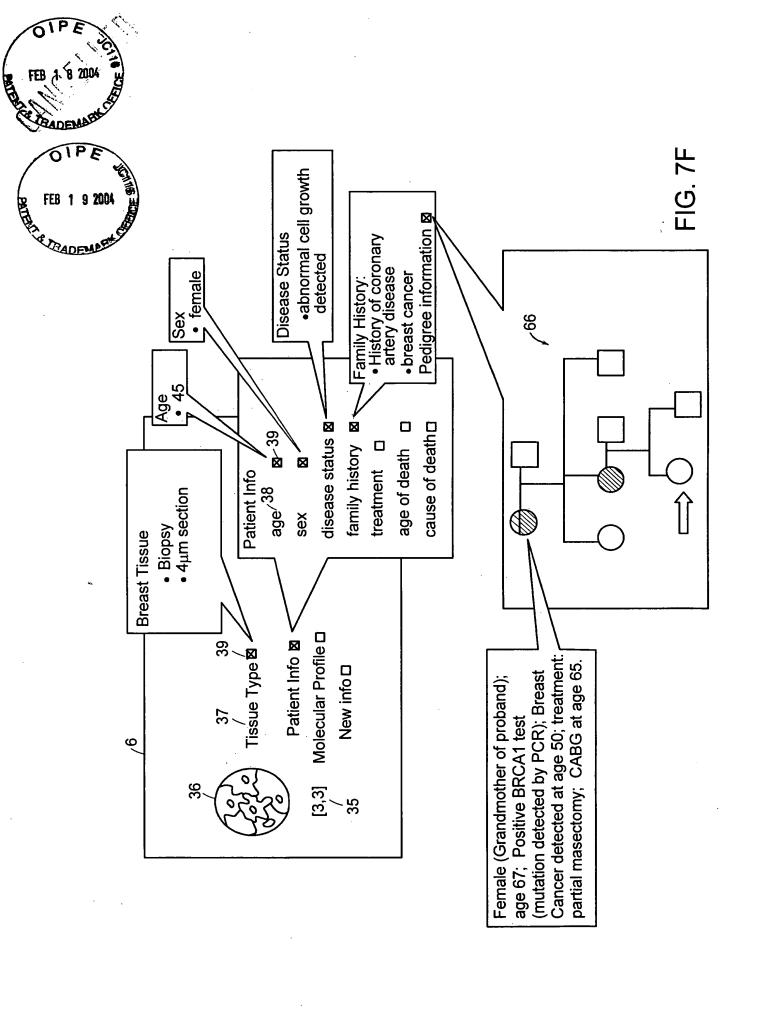
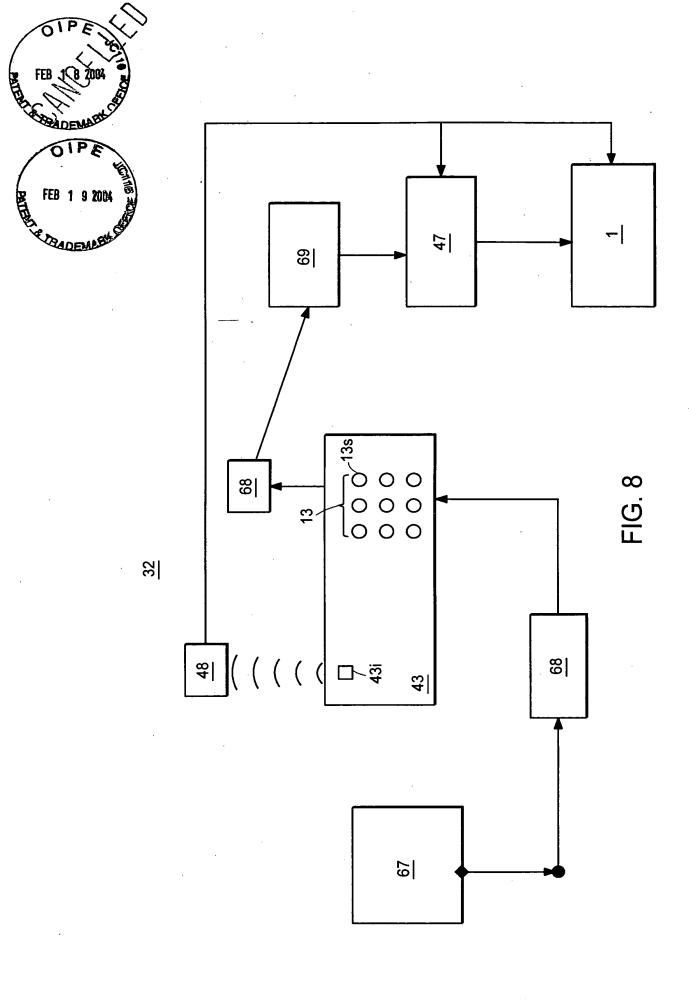


FIG. 7C







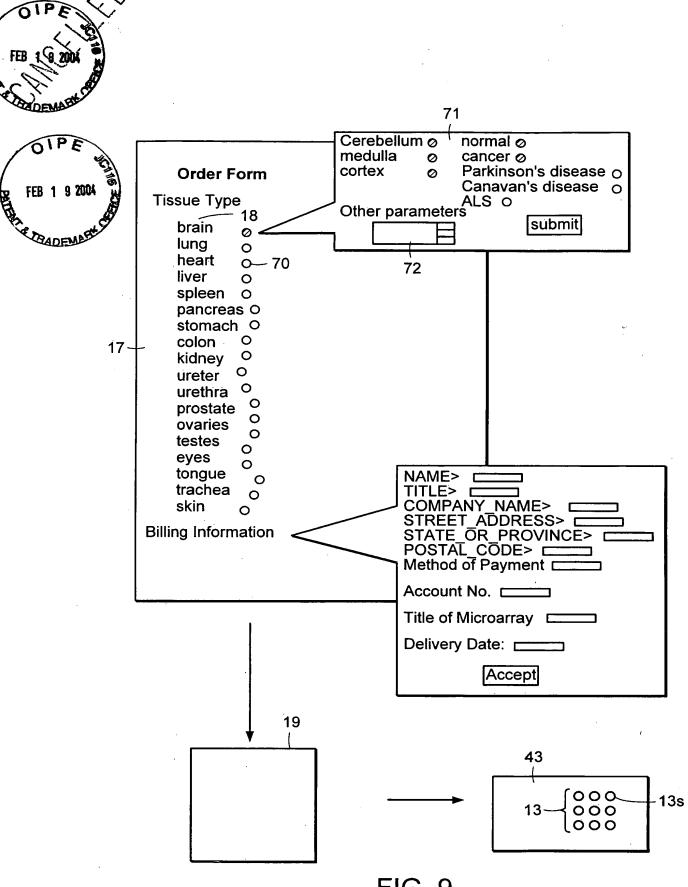
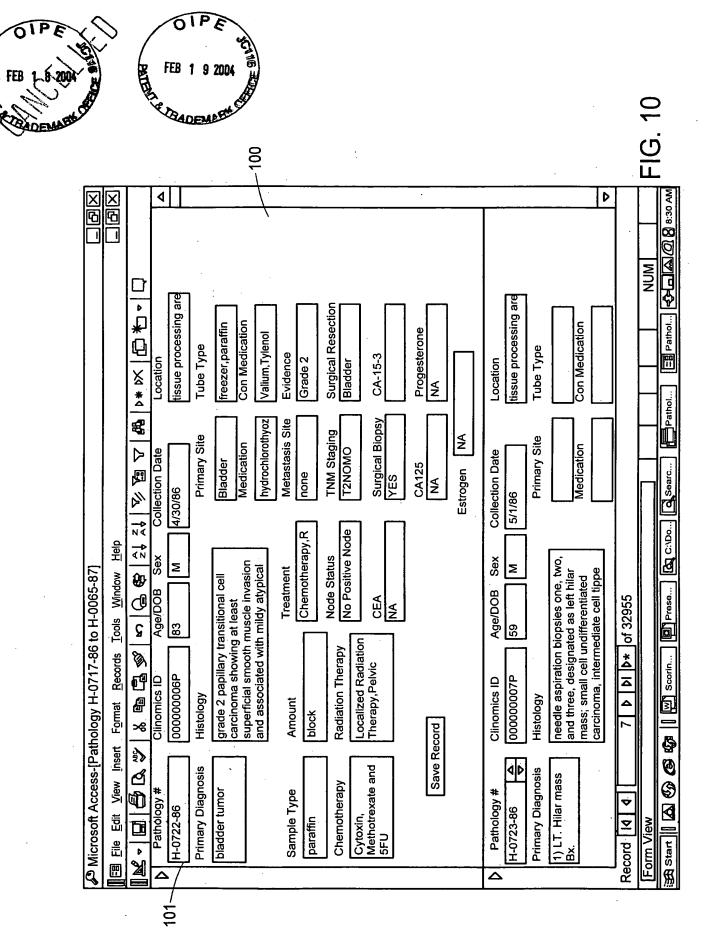


FIG. 9

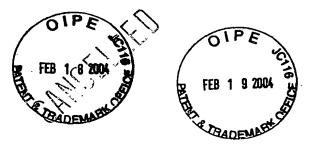






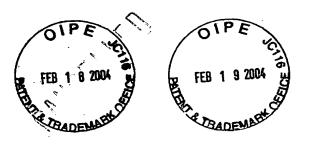
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NOREPOSIT	٠		B 00+ 00+ % \$		¥	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
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FIG. 11A



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FIG. 11B



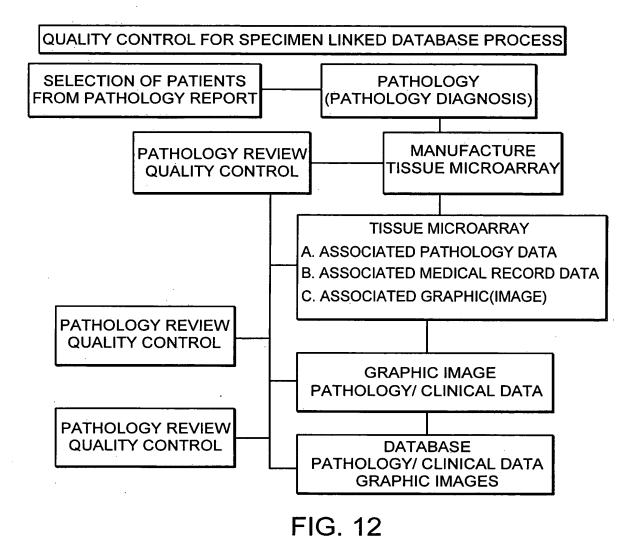


FIG. 13A FIG. 13B



		SNC	O-MED ANASITE NUMBERS				
					ı		
T.02	SKIN	T.41	ARTERY, GENERAL	T.77	PROSTATE	T.Y1	T.Y1 TRUNK, PERINEUM
T.03	SUBCUTANEOUS TISSUE	T.42	AORTA	T.78	TESTES, TUNICA VAGINALIS T. Y2 THORACIC, DIAPHRAGM	T.Y21	THORACIC, DIAPHRAGM
							MEDIASTINUM
T.04	BREAST	T.43	CORONARYARTERY	T.79	SCROTUM, SPERM CORD T. Y3 THORACIC VISCERA	T.Y3	THORACIC VISCERA
					EPIDERMIS,VAS DEF	T.Y4 /	T.Y4 ABDOMEN, PERITONEU
							RETROPERITONEUM
T.06	BONE MARROW	T.44	PULM,ARTERY	T.80	VULVA, LABIUM, CLITORIS T. Y6 PELVIS	T.Y6	PELVIS
					BARTOLINS GLAND	T.YX.F	T.YX PERITONEAL FLUID
T.07	SPLEEN	T.45	VERT, CAROTID, CEREBR, TEMPOR. T.81	T.81	VAGINA, HYMEN	T.Y1	T.Y1 SYNOVIAL FLUID
			BASILOR ARTERIES			T.2X	T.2X UPPER RESP FLDS
T.08	LYMPH NODES	T.46	ILIAC, RENAL, MESSENTERIC ARTERY T.82	T.82	UTERUS	T.2Y	T.2Y LOWER RESP FLDS
T.09	LYMPHATICS	T.47	POPLITEAL ARTERY	T.83	CERVIX	T.6X	T.6X GI FLDS,SPACES
T.11	BONE	T.48	VEIN	T.84	ENDOMETRIUM	T.6Y (T.6Y GI CONTENTS
T.12	SYNOVIUM, JOINT	T.49	VEIN	T.85	MYOMETRIUM	T.7X (T.7X URINE TRA.FLO. SPACE
T.13	MUSCLE	T.50	DIGESTIVE SYSTEM	T.86	FALLOPIAN TUBE	T.7Y I	T.7Y MALE GENT FLD,SPACE
T.15	CARTILADGE	T.51	MOUTH,PALATE,ORAL	T.87	OVARY	T.8X F	T.8X FEM.GENT FLD.SPACE
T.16	BURCA	T.52	LIP	T.88	PLACENTA, UMBCORD	T.8Y [F	T.8Y PLACENTA, FETAL FLD
T.17	TENDON	T.53	TONGUE	T.89	FETUS	T.XO	I.XO NERVOUS SYSTEM
T.18	LIGAMENT, FASCIA	T.54	GUM,TOOTH,GINGIVA	T.91	PITUITARY	T.YO[I.YO BODY AS A WHOLE
T.19	SOFT TISSUE	T.55	PAROTID, SALIV GLND	T.93	ADRENAL		

FIG. 13A



THYROID	PARATHYROID	THYMUS	ISLET OF LANGERHANS	BLOOD	FIBRO, ADIPOSE TISSUE	CONNECTIVE TISSUE	UPPER EXTREM.	LOWER EXTREM.	EAR	EYE	INTRACRAN, MENINGES	CSF, DURAL, VENTRIC SYS	CEREBRAL, BRAIN	CORPUS CALLOSUM	T.X3 BASAL GANGLIA	THALAMUS	T.X5 PONS,MIDBRAIN	T.X6 CEREBELLUM	SPINAL CORO	T.X8 CRANIAL NERVE, OPTIC	T.X9 NERVE, VAGUS NERVE	T.YO SCALP.ORBITAL
T.96	T.97	T.98	T.99	T.0X	T.1X		T.Y8	T.Y9	T.XY	T.XX EYE	T.X.1		T.X2		T.X3	T.X4	T.X5	T.X6	T.X7	T.X8	T.X9	TYO
LIVER	GALLBLADDER	EXTRAHEPATIC BILE DUCT T.98	PANCREAS	PHARYNX	TONSIL, ADENOIDS			OMENTUM, STOMACH, PYLORUS T. Y9 LOWER EXTREM.	SM.INTEST., DUODENUM	JEJUNUM,ILEUM	APPENDIX		COLON, MESSENTERY		RECTUM	ANUS	KIDNEY	RENAL PELVIS, COCCYX	URETER	BLADDER	URETHRA	PENIS
T.56	T.57	T.58	T.59	T.60	T.61		T.62	T.63	T.64	T.65	T.66		T.67		T.68	T.69	T.71	T.72	T.73	T.74	T.75	T.76
NOSE	SINUS, ACESSORY	NASOPHARYNX	T.24 VOC.CRD.LARY.,EPIGLT	TRACHEA	BRONCHUS		BRONCHIOLE	FUNG	PLEURA	CARDIO VAS SYS	PERICARDIUM		HEART		MYOCARDIUM	ENDOCARDIUM	CARDIAC VALVE	TRICUSPID VALVE	PULMONIC VALVE	MITRIAL VALVE	AORTIC VALVE	BLOOD VESSELS
T.21	T.22	T.23	T.24	T.25	T.26		1.27	T.28	T.29	T.30	T.31		T.32		T.33	T.34	T.35	T.36	T.37	T.38	T.39	T 40

FIG. 13B



SNO-MED DIAGNOSIS NUM	MBERS CARCINOM
ADENOCARCINOMA	M.8143
ADENOCARCINOMA, ANAPLASTIC	M.8233
ADENOCARCINOMA, CLEAR CELL	M.8313
ADENOCARCINOMA, COLLOID	M.8483
ADENOCARCINOMA, CYSTIC	M.8443
ADENOSQUAMOUS CARCINOMA	M.8563
ADENOCARCINOMA, IN-SITU	M.8142
ADENOCARCINOMA, MUCINOUS CYST	M.8473
ADENOCARCINOMA, PAPILLARY	M.8263
ADENOCARCINOMA, UNDIFFER	M.8233
ADENOCARCINOMA, SIGNET RING	M.8493
ARRHENBLASTOMA	M.8630
ANAPLASTIC MALIGNANCY	M.8003
ASTROCYTOMA, GRADE 1	M.9403
ASTROCYTOMA, GRADE 2	M.9433
ASTROCYTOMA, GRADE 2	M.9443
ADNEXAL CARCINOMA	M.8393
ANAPLASTIC CARCINOMA	M.8023
ADENOID CYSTIC CARCINOMA	M.8203
ADAMANTINOMA	M.9310
ALVEOLAR CARCINOMA	M.8253
ACINAR TUMOR	M.8001
ACINAR CARCINOMA	M.8553
BASAL CELL CARCINOMA	M.8093
BRONCHIOLAR CARCINOMA	M.8253
BASALOID TRANSITIONAL CARCINOMA	M.8123
BASAL CELL EPITHELIOMA	M.8090
	M.8013
CARCINOMA	M.8483
CARCINOMA, COLLOID	M.8012
CARCINOMA, IN-SITU	
CARCINOMA, PAPILLARY	M.8053
CARCINOMA, SMALL CELL	M.8043
CARCINOSARCOMA	M.8983
CARCINOID, MALIGNANT TUMOR	M.8243
CARCINOMA, UNDIFFERENTIATED METS	
CARCINOMA, UNDIFFERENTIATED	M.8023
CHORIOCARCINOMA	M.9103
CARCINOID TUMOR	M.8241
CHOLANGIOCARCINOMA	M.8163
CHONDROSARCOMA	M.9223
CHONDROBLASTOMA	M.9230
CRANIOPHARYNGIOMA	M.9351
CYLINDROMA	M.8203
CYSTADENOCARCINOMA PAPILLARY SEROUS	
CYSTADENOCARCINOMA, PAPILLARY	M.8453
DERMATOFIBROSARCOMA	M.8823
DYSPLASIA	M.7600
DUCTAL, INFILTRATING CARCINOMA	M.8503
EPENDYMOMA	M.9391

FIG. 14A

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	BADEMARK

EPIDERMOID CARCINOMA	M.8073	
EMBRYONAL CELL CARCINOMA	M.9073	
EPITHELOMA	M.8110	·
EWINGS SARCOMA	M.9263	
FIBROSARCOMA	M.8823	
FOLLICULAR CARCINOMA	M.8333	
GIANT CELL SARCOMA		
GIANT CELL SARCOMA GIANT CELL TUMOR	M.8803	
	M.9040	
GRANULOSA CELL TUMOR	M.8621 M.9443	
GLIOBLASTOMA, MULTIFORME	M.9383	
GLIOMA GIANT CELL CARCINOMA	M.8033	
	<u> </u>	
HEMANGIOBLASTOMA	M.9161	
HEPATOBLASTOMA	M.8973	
HISTOCYTOMA	M.8830	·
HODGKINS	M.9653	
HODGKINS SARCOMA	M.9683	
HURTLE CELL CARCINOMA	M.8363	
ISLET CELL CARCINOMA	M.8153	
KAPOSI SARCOMA	M.9143	
LEUKEMIA, ACUTE MYELOGENOUS	M.9865	
LEUKEMIA, LYMPHOMA	M.9826	·
LEUKEMIA	M.9807	
LEUKEMIA, CHRONIC LYMPOMA	M.9827	
LEIOMYOSARCOMA	M.8893	
LYMPHOMA, LYMPHOCYTIC	M.9633	
LYMPHOMA, LYMPHOCYTIC	M.9593	
LIMPHOMA, GIANT FOLLICULAR	M.9693	
LYMPHOSARCOMA, LYMPHOCYTIC	M.9623	
LYMPHOMA, MALIGNANT	M.9593	
LYMPHOMA, HISTIOCYSTIC	M.9643	
LYMPHERITHELIOMA	M.8083	
LYMPHOMA, T-CELL	M.9703	
LYMPHOSARCOMA, LYMPHOCYTIC	M.9613	
LIPOSARCOMA	M.8853	
LYMPHOMA, STEM CELL	M.9603	,
MALIGNANT MELANOMA SPINDLE CELL	M.8773	
MENINGIOMA	M.9530	
METASTATIC CARCINOMA	M.8016	
MALIGNANT TUMOR	M.8003	
METASTATIC MALIGNANT TUMOR	M.8006	
MEDULLOBLASTOMA	M.9473	
MALIGNANT MELANOMA	M.8723	
MALIGNANT CELLS	M.6972	
MYOBLASTOMA	M.9370	
MUCOEPIDERMOID CARCINOMA	M.8433	
MALIGNANT CARCINOID TUMOR	M.8243	
MALIGNANT MESENSHYMOMA	M.8993	
MESOTHELIOMA	M.9051	
MYELOMA	M.9733	
METASTATIC MELANOMA	M.8733	
THE IT TO IT IT IS THE WAY IN TAIL	107.001	

FIG. 14B



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MALIGNANT GRANULOSA CELL TUMOR	M.8623
MALIGNANT PHEOCHROMOCYTOMA	M.8703
MALIGNANT MESOTHELIOMA	M.9053
METASTATIC LEIOMYOSARCOMA	M.8893
MESODERMAL TUMOR	M.8953
MIXED TUMOR	M.8940
NEUROBLASTOMA, NEUROEPITHELIOMA	
NECROTIC TUMOR	M.5443
NEUROBLASTOMA, NEUROEPITHELIOMA	M.9503
OLIGODENDROGLIOMA	M.9453
OAT CELL CARCINOMA	M.8043
OSTEOBLASTOMA	M.9200
OSTEOMA	M.9180
OSTEOSARCOMA	M.9183
OSTEOIDOSTEOMA	M.9190
OSTEOCHONDROMA	M.9210
PAPILLARY CARCINOMA	M.8053
PLASMA CELL MYELOMA	M.9733
PAPILLARY METASTATIC CYATADENOCARCINOMA	M.8463
PAPILLARY TRANSITIONAL CELL CARCINOMA	M.8133
RENAL CELL CARCINOMA	M.2485
RETICULUM CELL SARCOMA	M.9643
RENAL CLEAR CELL CARCINOMA	M.8313
SQUAMOUS CELL CARCINOMA	M.8073
SARCOMA, RETICULAR CELL	M.8316
SQUAMOUS EPITHELIAL TUMOR	M.8070
SQUAMOUS CELL CARCINOMA IN-SITU	M.8072
SARCOMA, UNDIFFERENTIATED GIANT CELL	
SARCOMA, RETICULAR CELL	M.9643
SPINDLE CELL CARCINOMA	M.8033
SEMINOMA	M.9063
STROMAL SARCOMA	M.8933
TUMOR	M.8001
TUMORLET	M.8043
THYMOMA MALIGNANT	M.8583
TRANSITIONAL CELL CARCINOMA	M.8123
TERATOMA	M.9081
VERRICOUS SQUAMOUS CARCINOMA	M.8053

FIG. 14C

FIG. 15A FIG. 15B FIG. 15C

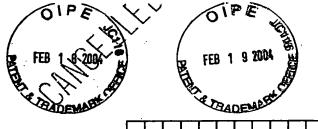
FIG. 15

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		METHO	FFPE									FFPE									11						
		MEDICATIONS	N/A	-								BETAMETHASONE	MAGNESIUM SULFATE	PITOCIN	APRESOLINE	MANNITOL					N/A						
		DSM-IV-T	291.89									293.83									293.83						
		ICD-9-CM DSM-IV-T				851.80	852.00		860.0			401.9	245.9	493.9	642.0	437.2	431.0		348.5		174.9	425.4	428.0				
BRAIN INVENTORY CLASSIFICATIONS		MEDICAL HISTORY	MULTIPLE TRAUMATIC INJURIES	SUSTAINED IN A MOTOR VEHICLE	ACCIDENT OPEN SKULL FRACTURES.	BRAIN CONTUSIONS.	SUBARACHRICID HEMORRHAGE	PERICARDIAL TEAR.	BILATERAL PNEUMOTHORACES.	CONTUSIONS OF HEART	BLOOD ALCOHOL LEVEL 95 MG/DT	PREGNANCY INDUCED HYPERTENSION	THYROIDITIS	ASTHMA	SEVERE PRE-EDAMPSIA	ANOXIC ENCEPHALOPATHY	INTRACEREBRAL HEMORRHAGE	HEMORRHAGE OF RIGHT PUTAMEN	HYPERTENSIVE CEREBRAL EDEMA	DIFFUSE ANOXIC CHANGES	BREAST CANCER	IDIOOPATHIC CARDIOMYOPATHY	CHRONIC CONGESTIVE HEART	FAILURE.	ANAPHYLACTIC SHOCK SECONDARY	TO TAXOL ADMINISTRATION.	SEVERE HYPOXIA AND BRAIN DEATH.
ENTO		E SEX	M									F				_					ш						
BRAIN INVE		DOB AGE	04/08/1981 18									04/26/1972 27									12/27/1947 52	┺					
		TISSUE		(ORGANIC)									(ORGANIC)								RRAIN						
	:	PATHOLOGY	AU-99-47									AU-99-61									A11-99-80						

FIG. 15A



FFPE						FFPE															FFPE				
A/N						N/A															N/A				
307.89						291.89	305.00														293.83				
307.89	305.90	414.00										571.2									185.0	162.9			331.3
CHRONIC PAIN	DRUG ABUSE	SEVERE CORONARY ARTERY SCLEROSIS.	OLD MYOCARDIAL INFARCTION.	CARDIOMEGALY.		SEVERE CHRONIC ALCOHOLISM.	PREVIOUS HOSPITAL ADMISSION	FOR ALCOHOL INTOXICATION AND	MAJOR DEPRESSION.	SEVERE ASCITES(4,000 ML)	HEPATOMEGALY(LIVER 1,690 GM)	SEVERE CIRRHOSIS.	MULTIPLE TRAUMATIC INJURIES	SUSTAINED IN A MOTOR VEHICLE	ACCIDENT: AVULSION OF SOFT TISSUE,	BONE AND BRAIN.	MULTIPLE COMMINUTED OPEN	FRACTURES OF THE SKUIL	ALCOHOL INTOXICATION	BLOOD ETHANOL LEVEL 252 GM %	PROSTATE CANCER	SQUAMOUS CELL CANCER IT LUNG	VENTRICULAR PERITONEAL SHUNT	SECONDARY TO PROGRESSIVE	HYDROCEPHALUS FROM BRAIN MASS.
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42	<u> </u>					0 39							2 37								 21	_	_		
09/05/1957			,			05/10/1960							04/19/1962								01/09/2028				
BRAIN		(PSYCH)				BRAIN	(PSYCH)						BRAIN	(PSYCH)							BRAIN	(ORGANIC)			
AU-99-82						AU-99-84						:	AU-99-90								AU-99-91				

FIG. 15B

FEB 1 9 2004 W

											FFPE															
											CCUPRIL, COLCHICINE, NAPRO															
											303.00	291.89								305.00						
401.9					197.7	198.3	492.8				278.00	401.9	274.9			410.9			571.2		401.9		571.2		492.8	
HYPERTENSION	HEADACHES	UNSTEADY GATE	MENTAL CONFUSION	META SQUAMOUS CELL CANCER	TO LIVER, SPLEEN, KIDNEYS,	AND BRAIN.	EMPHISEMA	ATHEROSCLEROSIS OF CORONARY	ARTERIES.		MORBID OBESITY	HYPERTENSION	GOUT	CRONIC PAIN SYNDROME	DEPRESSION	ACUTE MYOCARDIAL INFARCTION	ACUTE ALCOHOL INTOXICATION	CARDIAC HYPERTROPHY	MICROMODULAR CIRRHOSIS	ETHANOL ABUSE	HYPERTENSION	ELEVATED LIVER ENZIMES	MICRONODULAR CIRRHOSIS	SEVERE ASCITES(5LT)	SPLENOMEGALY	EMPHISEMA
											Σ									ட						
											4									22						
										-	05/01/1958									########						
											BRAIN	(PSYCH)								BRAIN	(PSYCH)					
											AU-99-93									AU-99-94						

FIG. 15C